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NPIC/TDS/D-1015-67  
13 September 1967

## Declass Review by NIMA/DOD

### MEMORANDUM FOR THE RECORD

SUBJECT: Sine-Wave Test Equipment

1. Use of the instrument required adjustment of three controls---a zoom control under the viewing eyepiece, an alignment control at arms length on the right side, and a vernier control located about midway between the first two. A series of luminous rectangles of various sizes in a black background was to be observed in the monocular eyepiece of the instrument, and two grids of parallel lines superimposed by adjustment of the three controls, until a null was obtained. At null the individual lines disappear and the rectangle becomes a shaded area. The reading of the vernier control at null was the required observation.

#### 2. Comments.

Of the several rectangles viewed in the eyepiece, only the three largest were usable.

It seemed more difficult to determine alignment in the second of the three rectangles.

Viewing through a binocular eyepiece would be preferable.

Focus of the observed grids of parallel lines was poor.

Controls were awkward to use.

The spread of the readings at any one alignment point seemed rather large.

#### 3. Criticism.

Use of the instrument proved to be rather difficult and fatiguing and it was easy to become impatient with the device. In its present configuration, the instrument is poor from a human engineering standpoint. In view of the difficulty of use and spread of the observed data, the accuracy of the instrument may be questioned.

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Exploitation Systems Branch, Development Staff, TDS

#### Distribution:

Original - Route and File

1 - Chrono

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